

**D-18-X**

Roll No. 239

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

**HSEIRKN15**

**6418-X**

**BOTANY**

**(Biology)**

Time : 1½ Hours]

[Maximum Marks : 35

**(Long Answer Type Questions)**

5 Each

1. Define cross pollination. Name the contrivances that favour it and describe any *two* of them.

*Or*

Describe the process of double fertilization. What is its significance ?

2. What is multiple allelism ? Explain with the help of an example.

*Or*

Define genetic code. Point out its characteristics.

**(Short Answer Type Questions)**

3 Each

3. Why did Mendel select garden pea for his experiments ?
4. Define tissue culture. Name any *three* applications of tissue culture.

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Turn Over

5. Name the various interactions in a biotic community and describe any *one* of them.
6. Suggest any *three* measures for controlling pollution of our lakes.

**(Very Short Answer Type Questions)**

2 Each

7. The following very short answer type questions of 2 marks, each may be answered in a few words or few sentences or as may be required.
  - (a) Point out the advantages of vegetative reproduction in plants.  
(Any two points)
  - (b) Define polyploid breeding. Name the chemical used in inducing polyploidy.
  - (c) Point out at any ~~three~~ advantages of tissue culture technique.
  - (d) How is parasitism different from predation ?

1 Each

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8. Choose the correct/most appropriate answer and write in your answer-book :
- (i) Define mortality rate.
  - (ii) Translation occurs in :
    - (a) Nucleus
    - (b) Cytoplasm
    - (c) Both (a) and (b)
    - (d) None of these
  - (iii) Succession on a burnt forest represents .....
  - (iv) Define national park.
  - (v) The synthesis of organic molecules by green plants represents primary productivity. (False/True)

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